

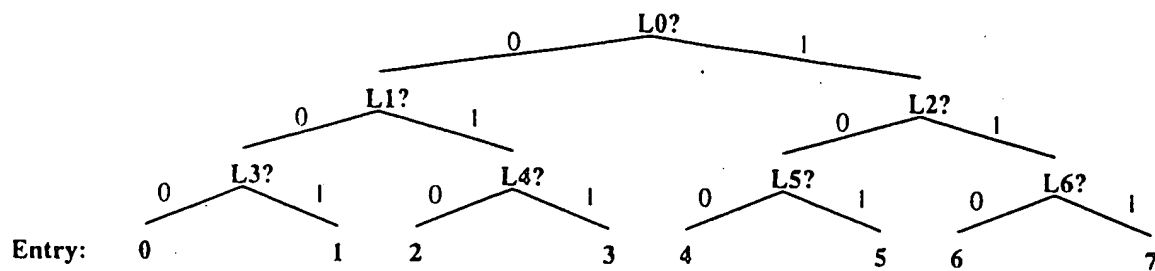
FIG. 1

$\underbrace{\quad}_{309}$		$\underbrace{\quad}_{310}$			
$0_A$	$1_A$	$0_B$	$1_B$	$\frac{311}{C}$	$\frac{312}{D}$
$2_A$	$3_A$	$2_B$	$3_B$		
$\frac{313}{E}$		$\frac{314}{F}$		$\frac{315}{G}$	$\frac{316}{H}$
$\frac{317}{I}$		$\frac{318}{J}$		$\frac{319}{K}$	$\frac{320}{L}$
$\frac{321}{M}$		$\frac{322}{N}$		$\frac{323}{O}$	$\frac{324}{P}$

300

FIG. 2

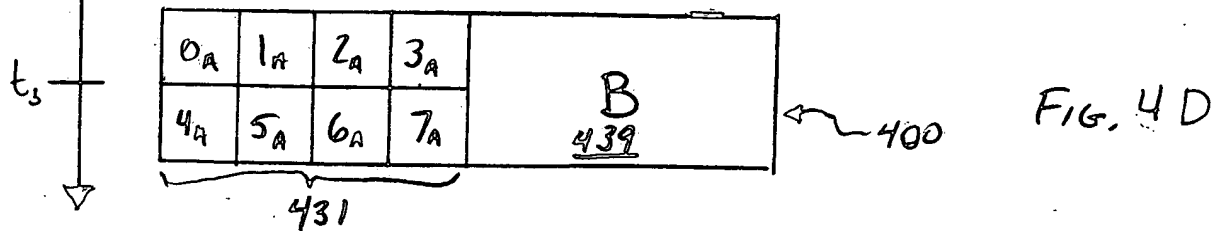
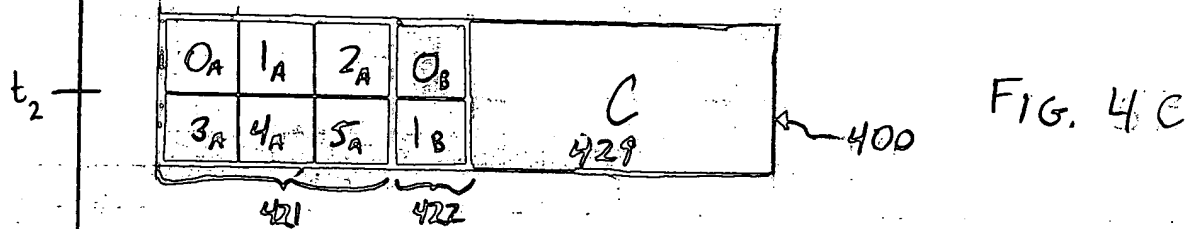
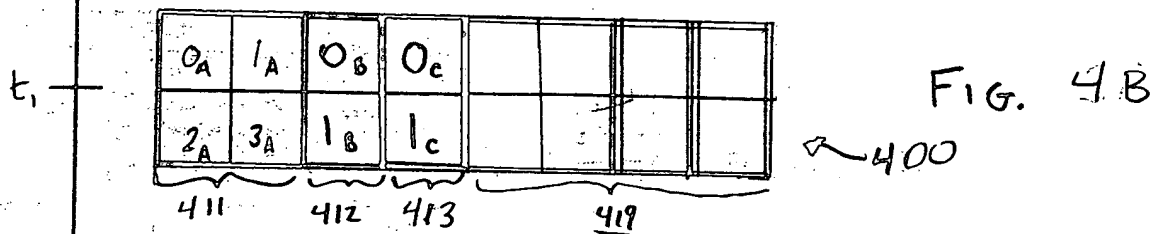
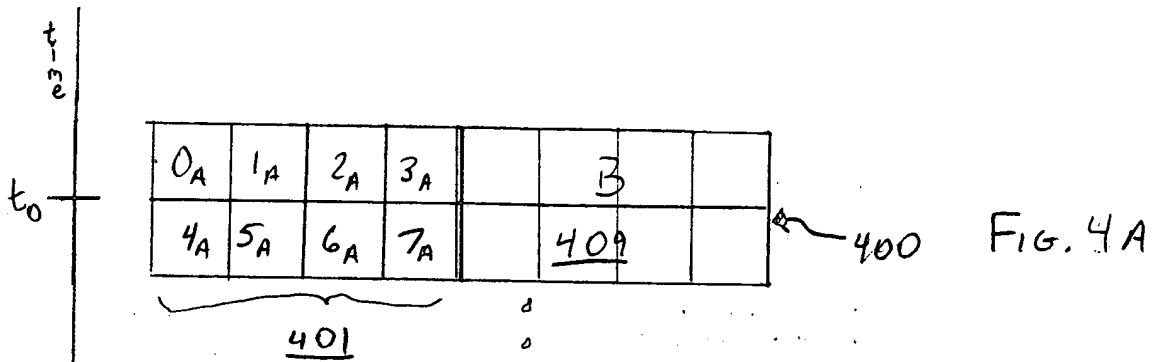
# PSEUDO-LRU REPLACEMENT MECHANISM



## PSEUDO-LRU UPDATE BASED ON ENTRY HIT

Entry hit	New LRU value						
	L0	L1	L2	L3	L4	L5	L6
0	1	1		1			
1	1	1		0			
2	1	0			1		
3	1	0			0		
4	0		1			1	
5	0		1			0	
6	0		0				1
7	0		0				0

FIG. 3



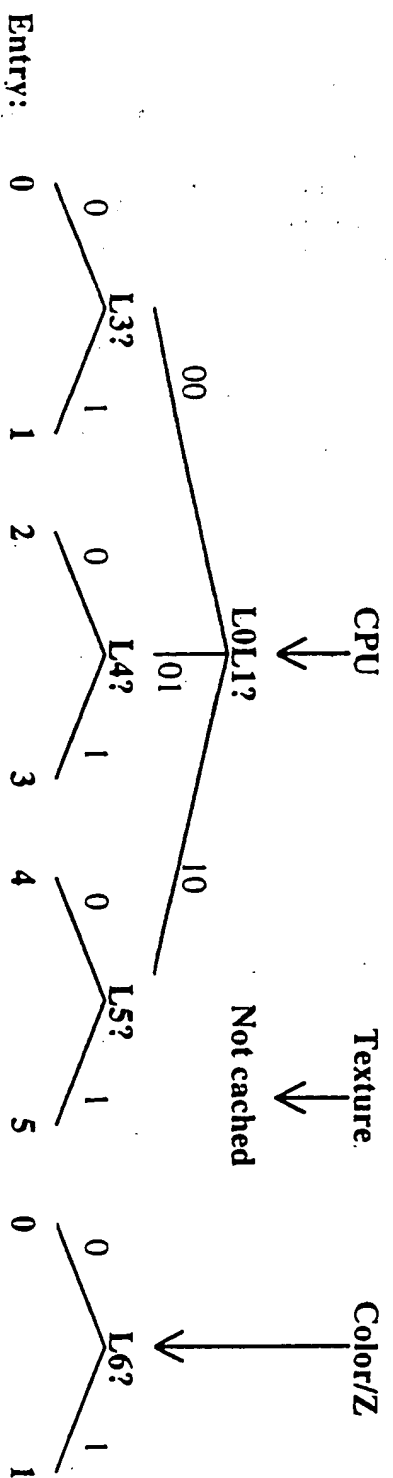


FIG. 5

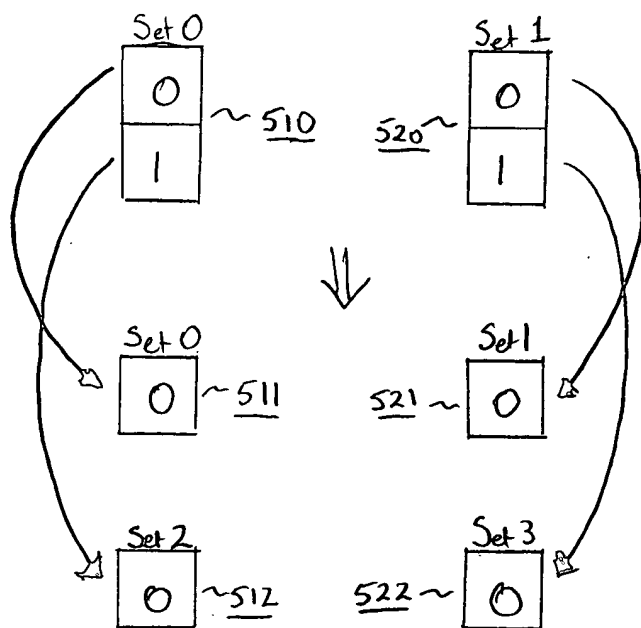
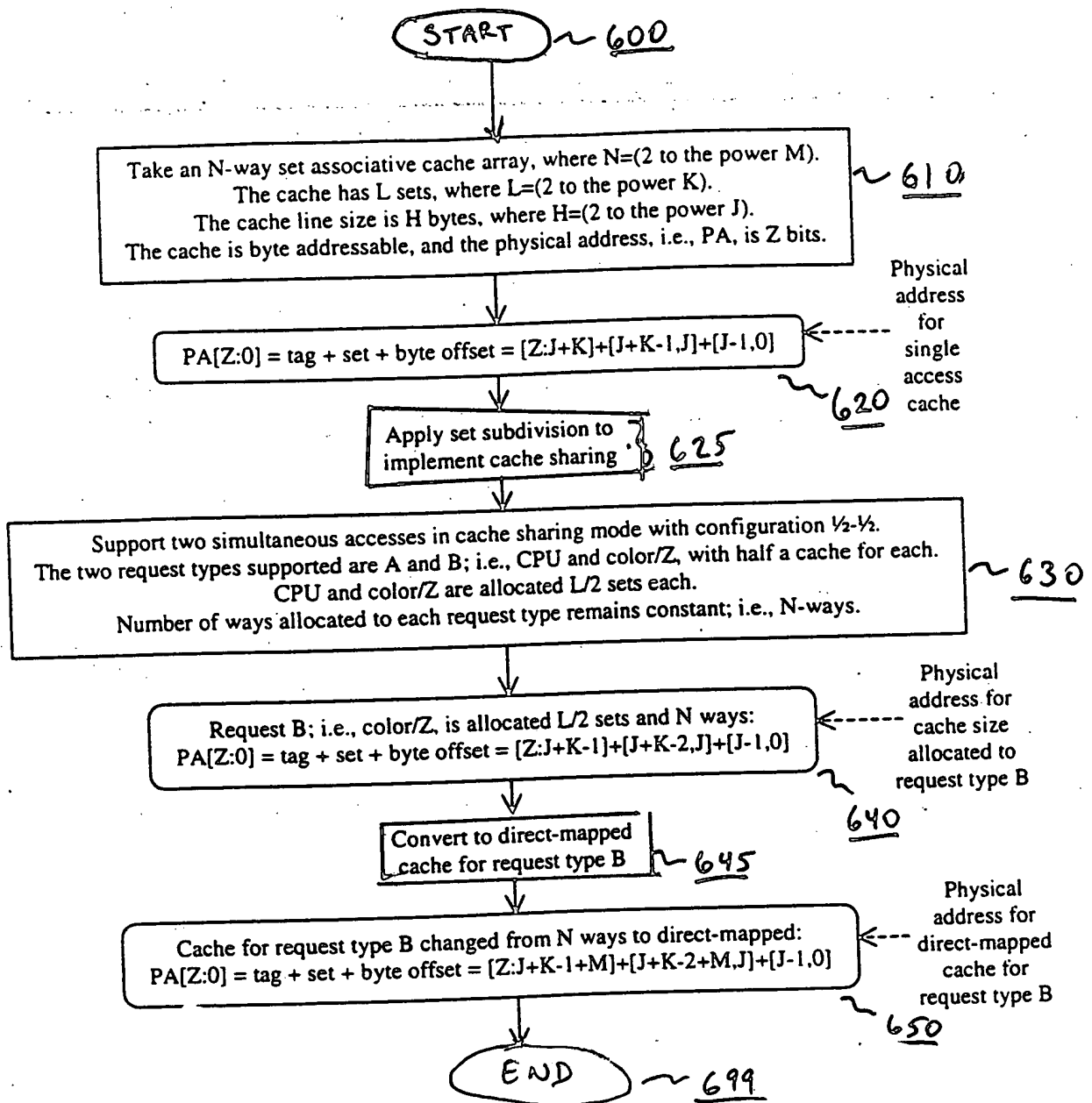
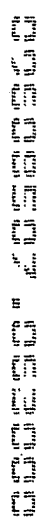


FIG. 6

500

FIG. 7





# PSEUDO-LRU UPDATE BASED ON ENTRY HIT

Entry hit	New LRU value			
	MSB	L1	L2	L3
0	1	1	1	
1	1	1	0	
2	1	0		1
3	1	0		0
4	0	1	1	
5	0	1	0	
6	0	0		1
7	0	0		0

HHH